

RECYCLED PLASTIC OFFSET BLOCKS (RPOB):

1.1 GENERAL

Recycled plastic offset blocks shall meet the requirements of this special provision. RPOB shall be used in lieu of pressure-treated wood at locations where offset blocks are required.

2.1 MATERIAL

RPOB shall be made from recycled plastic or composite, extruded into a lumber-like product, capable of being worked with conventional carpentry tools. A 6 inch x 8 inch (152 mm x 203 mm) RPOB shall be used as a one-for-one substitute for wood offset blocks on G4 (2W) wood post guardrail systems and a 6 inch x 6 inch (152 mm x 152 mm) as a one-for-one substitute for offset blocks on G4 (1S) steel post guardrail systems at locations where offset blocks are required.

RPOB shall be resistant to termites and fire ants with no more than 10% infestation expected to occur during the theoretical lifetime of the RPOB. The theoretical lifetime is considered to be 20 years. Recycled plastic is defined as plastic material which has been traditionally disposed of in a landfill. RPOB shall be fabricated to the same dimensions as wood offset blocks. Dimensional tolerances shall be $\pm 5/8$ inch in height, $\pm 3/8$ inch in width and $\pm 3/8$ inch in depth.

3.1 TESTING

The Contractor shall certify that the RPOB meets the requirements of National Cooperative Highway Research Program (NCHRP) Reports 230 or 350, respectively. Additionally, the Contractor shall certify that the RPOB is approved by the Federal Highway Administration. The Contractor shall certify that the material composition of the RPOB is recycled plastic.

4.1 CONSTRUCTION METHODS

Construction methods shall meet the requirements of Sections 862-3 and 862-4 of the Standard Specifications. For a list of potential RPOB suppliers contact the NC DOT Design Services Unit in Raleigh at (919) 250-4128.

5.1 METHOD OF MEASUREMENT

Method of measurement shall meet the requirements of Section 862-5 of the Standard Specifications.

6.1 BASIS OF PAYMENT

Basis of payment shall meet the requirements of Section 862-6 of the Standard Specifications.